LG
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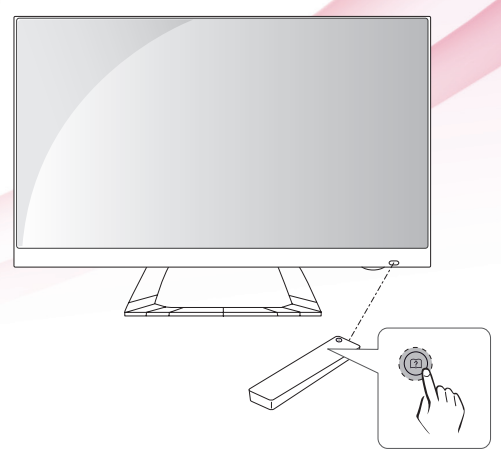
ENGLISH



OWNER'S MANUAL

LED LCD TV (CINEMA 3D TV)

Please read this manual carefully before operating the your TV and retain it for future reference.

LED LCD TV (CINEMA 3D TV) MODEL

TM2792S

www.lg.com

ENGLISH

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LICENSES

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INSTALLATION PROCEDURE

1 Open the package and make sure all the accessories are included.

2 Attach the stand to the TV.

3 Connect an external device to the TV.

NOTE

- Image shown may differ from your TV.
- Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.
- The available menus and options may differ from the input source or product model that you are using.
- New features may be added to this TV in the future.

ASSEMBLING AND PREPARING

Unpacking

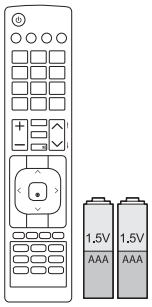
Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product. The illustrations in this manual may differ from the actual product and accessories.

NOTE

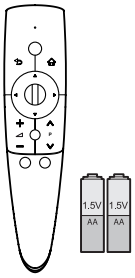
- The accessories supplied with your product may vary depending on the model.
- Product specifications or contents in this manual may be changed without prior notice due to upgrade of product functions.

CAUTION

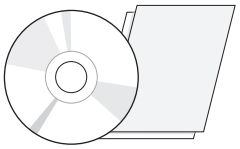
- Do not use any pirated items to ensure the safety and product life span.
- Any damages or injuries by using pirated items are not covered by the warranty.



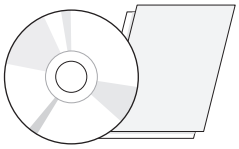
Remote control.
Batteries (AAA).



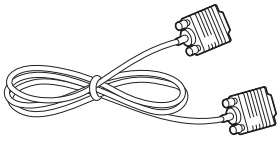
Magic Remote Control.
Batteries (AA).



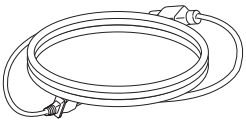
CD (Owner's Manual).
Cards.



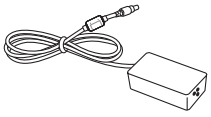
TriDef 3D Game Software CD /
Quick Installation Guide



RGB Cable.

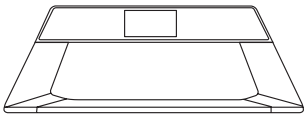


Power Cord.

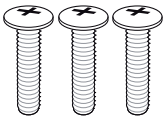


AC-DC Adapter.

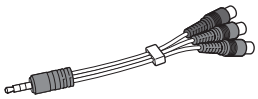
Cable holder.



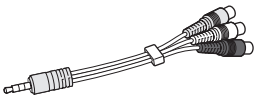
Stand Base.



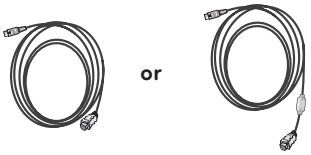
Screws for Assembly.
3 EA



Component video cable



Composite video cable



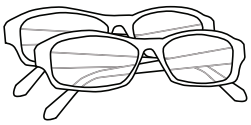
or

MHL passive cable

3D Glasses(Normal type / Clip type)

- The number of 3D glasses may differ depending on the model or country.
- Image shown may differ from your TV.

Separate purchase



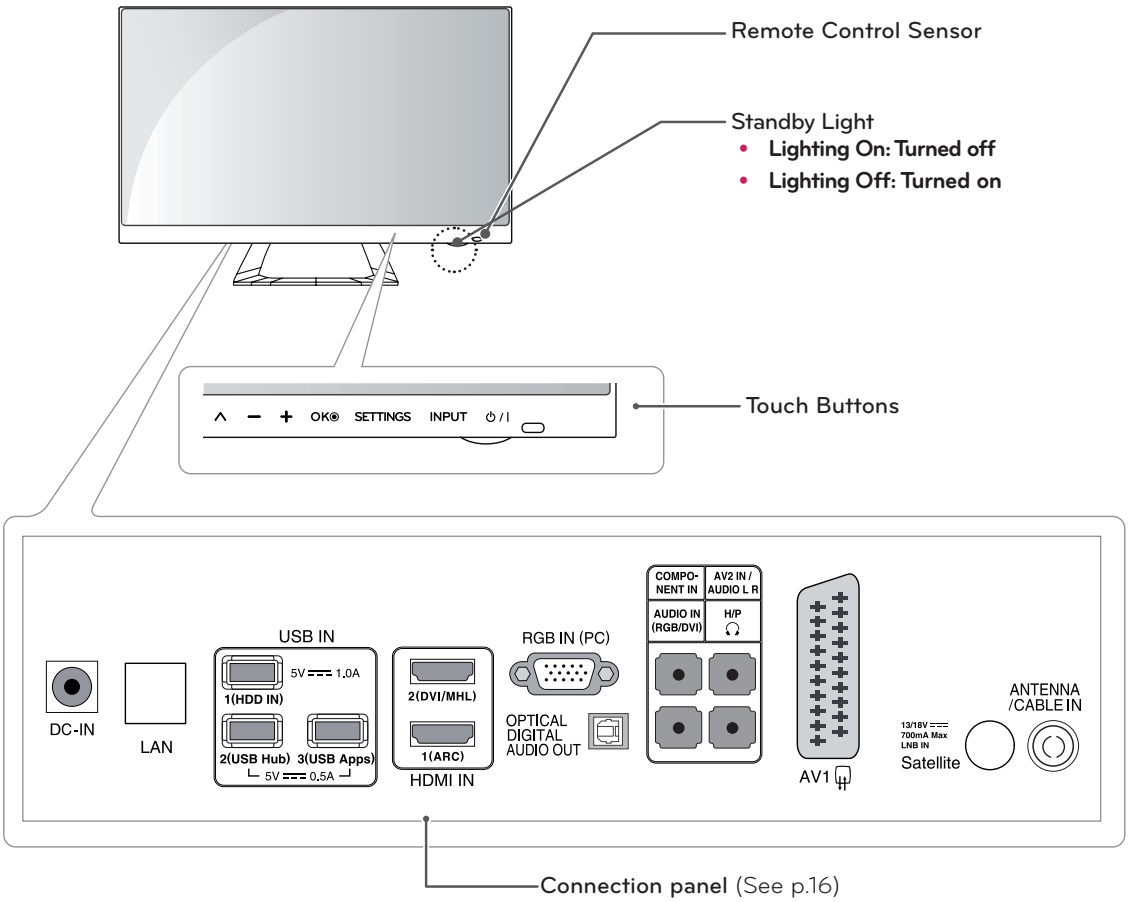
Dual play glasses

AG-F2**DP, AG-F3**DP

NOTE

- The illustrations in this manual may differ from the actual product and accessories.
- Separate purchase items can be changed or modified for quality improvement without any notification.
- Contact your dealer to buying these items.
- The model name or design may be changed depending on the upgrade of product functions,manufacturer's circumstances or policies.

Parts and buttons



Touch button	Description
∨ ∧	Scrolls through the saved programmes.
− +	Adjusts the volume level.
OK	Selects the highlighted menu option or confirms an input.
SETTINGS	Accesses the main menus, or saves your input and exits the menus.
INPUT	Changes the input source.
⏻ / I	Turns the power on or off.

NOTE

All of the buttons are touch sensitive and can be operated through simple touch with your finger.

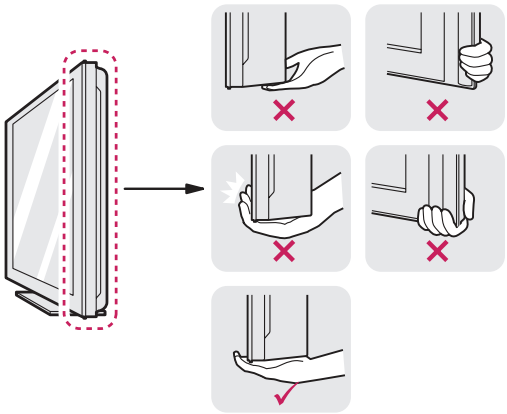
Lifting and moving the TV

When moving or lifting the TV, read the following to prevent the TV from being scratched or damaged and for save transportation regardless of its type and size.

CAUTION

Avoid touching the screen at all times, as this may result in damage to the screen or some of the pixels used to create images.

- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.
- Hold the top and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grill area.



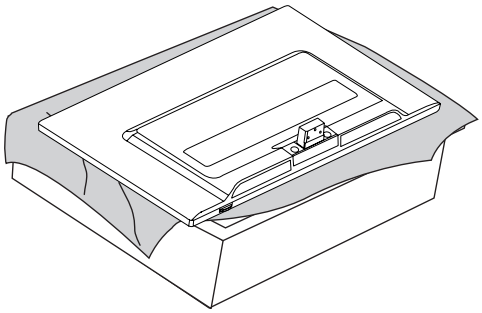
- When holding the TV, the screen should face away from you to prevent the screen from scratches.

- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright, never turn the TV on its side, or tilt towards the left or right.

Setting up the TV

Attaching the Stand

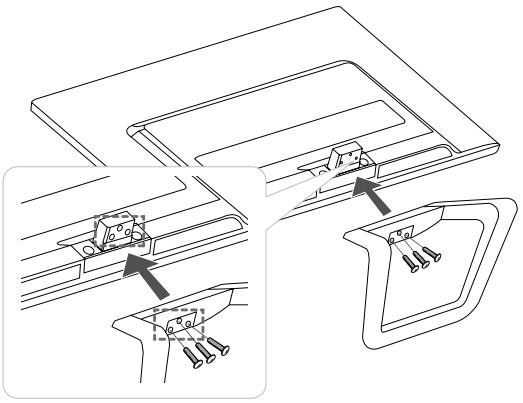
1 Place the TV with the screen side down on a flat and cushioned surface.



CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage.
- When attaching the stand to the TV, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches.

2 Attach the stand base from the TV by 3 screws.



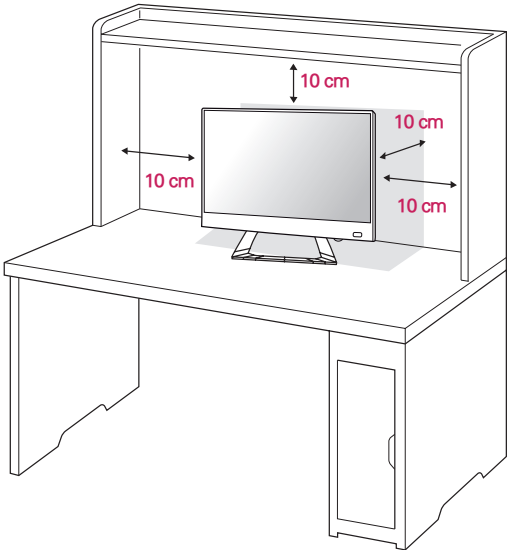
CAUTION

Tighten the screws firmly to prevent the TV from tilting forward. Do not over tighten.

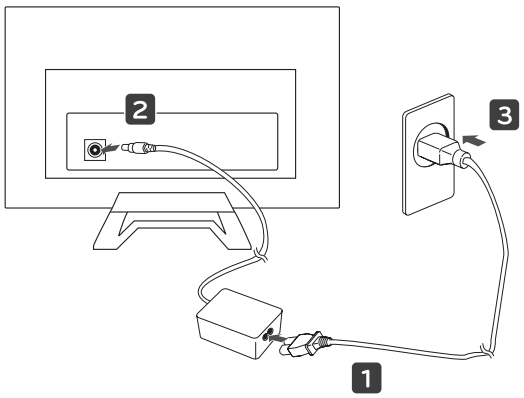
Mounting on a table

1 Lift and tilt the TV into its upright position on a table.

Leave a 10 cm (4 inches) (minimum) space from the wall for proper ventilation.



2 Connect the **AC-DC Adapter** and **Power Cord** to a wall outlet.

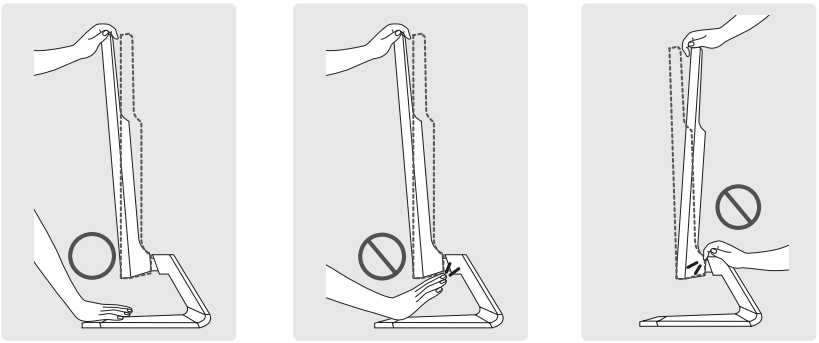


CAUTION

Do not place the TV near or on sources of heat, as this may result in fire or other damage.

WARNING

When you adjust the angle, do not hold the buttom of the TV frame as shown on the following illustration, as may injure your fingers.

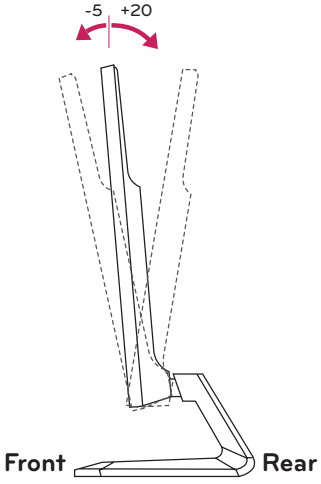


CAUTION

Disconnect the power cord first, and then move or install the TV. Otherwise electric shock may occur.

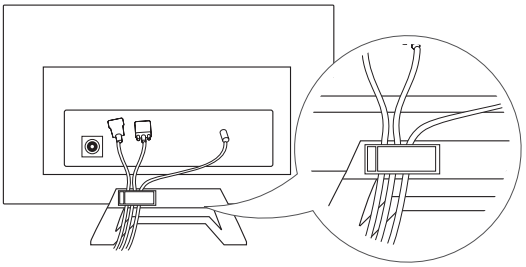
NOTE

Tilt from +20 to -5 degrees up or down to adjust the angle of the TV to suit your view.



Tidying cables

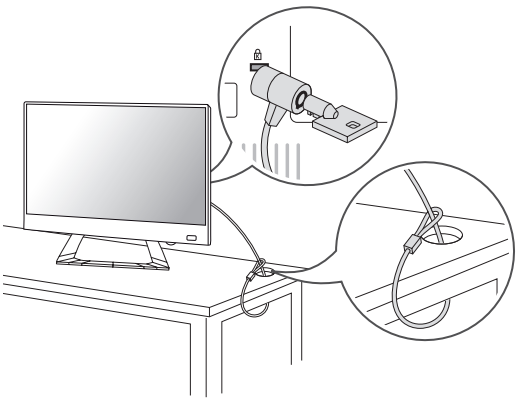
Gather and bind the cables with the supplied cable holder.



Using the Kensington security system

The Kensington security system connector is located at the back of the TV. For more information of installation and using, refer to the manual supplied with the Kensington security system or visit *http://www.kensington.com*.

Connect the Kensington security system cable between the TV and a table.

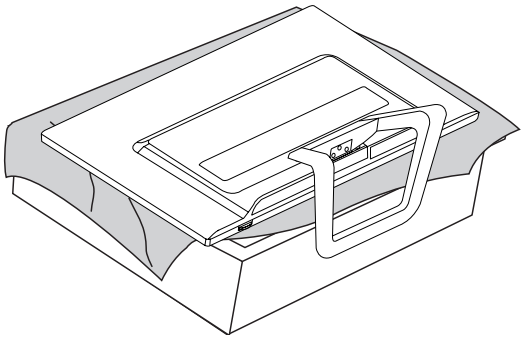


NOTE

The Kensington security system is optional. You can obtain additional accessories from most electronics stores.

Detaching the Stand

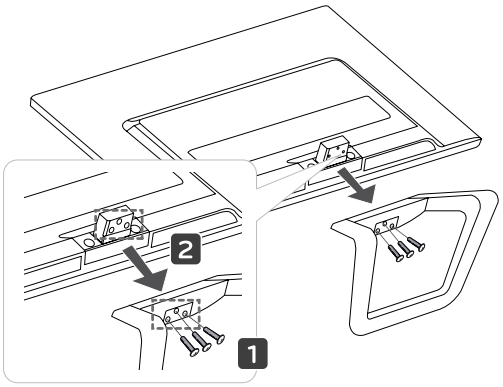
1 Place the TV with the screen side down on a flat and cushioned surface.



CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage.
- When detaching the stand to the TV, place the screen facing down on a cushioned table or flat surface to protect the screen from scratches.

2 Remove 3 screws and pull out the Stand Base from the TV.



WATCHING TV

Turning the TV on for the first time

When you access the TV for the first time, the initial setting screen appears. Select a language and customize the basic settings.

1 Connect the power cord to a power outlet.

2 Press ⏻/| on the TV or power button on the remote control to turn the TV on.
The Standby Light is turned off.

3 The initial setting screen appears if you access the TV for the first time.

NOTE

If you do not operate the TV within 40 seconds when the setting menu screen appears, the setting menus will disappear.

4 Follow the on-screen instructions to customize your TV according to your preferences.

NOTE

- For those countries without confirmed DTV broadcasting standards, some DTV features might not work, depending on the DTV broadcasting environment.
- When France is selected for Country, the initial password is not '0', '0', '0', '0' but '1', '2', '3', '4'.
- To display images in the best quality for your home environment, select **Home Use mode**.
- **Store Demo** mode is suitable for the retail environment.
- If you select **Store Demo mode**, the previously customized settings will switch to the default settings of **Store Demo mode** in 2 minutes.

5 When the basic settings are complete, press **OK**.

NOTE

If you do not complete the initial setting, it will appear whenever you access the TV.

6 To turn the TV off, press ⏻/| on the TV.
The Standby Light is turned on.

CAUTION

Disconnect the power cord from the power outlet when you do not use the TV for a long period of time.

NOTE

You can also access Factory Reset by accessing OPTION in the main menus.

ENGLISH

MAKING CONNECTIONS

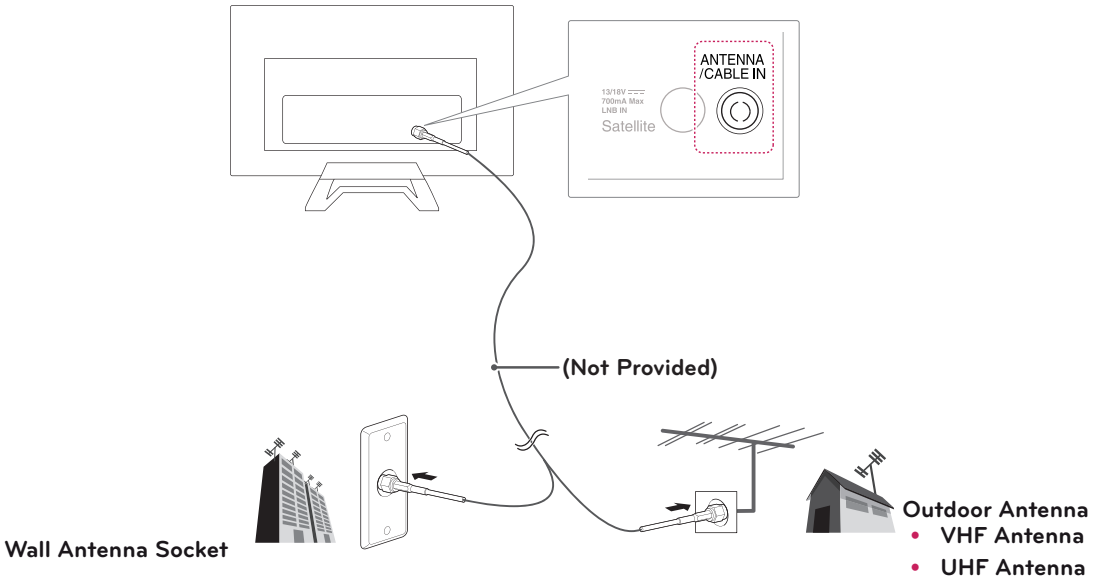
Connect various external devices to the TV and switch input modes to select an external device. For more information about an external device's connection, refer to the manual supplied with each device.
Available external devices are: HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, camcorders or cameras, gaming devices, and other external devices.

NOTE

- If you record a TV program on a DVD recorder or VCR, make sure to connect the TV signal input cable to the TV through a DVD recorder or VCR. For more information about recording, refer to the manual supplied with the connected device.
- The external device connection may differ from the model.
- Connect external devices to the TV regardless of the order of the TV port.

Connecting an antenna

Connect an antenna, cable or cable box to watch TV referring to the following. The illustrations may differ from the actual accessories and an RF cable is optional.
Connect the TV to a wall antenna socket with an RF cable (75 Ω).

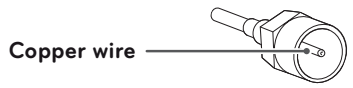


NOTE

- Use a signal splitter to use more than 2 TVs.
- If the image quality is poor, install a signal amplifier properly to improve the image quality.
- If the image quality is poor with an antenna connected, aim the antenna to the proper direction.
- Visit *http://AntennaWeb.org* for more information about the antenna and cable connection.

CAUTION

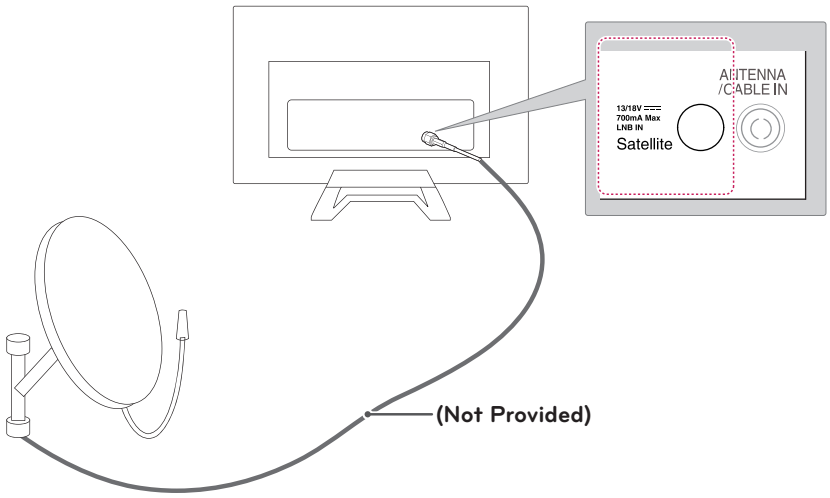
- Make sure not to bend the copper wire of the RF cable.



- Complete all connections instructions between devices, and then connect the power cord to the power outlet to prevent damages to your TV.

Satellite connection

Connect the TV to a satellite dish to a satellite socket with a satellite RF cable (75 Ω).



Connecting to a HD receiver, DVD, VCR player or Gaming device

Connect a HD receiver, DVD, VCR player or Gaming device to the TV and select an appropriate input mode.

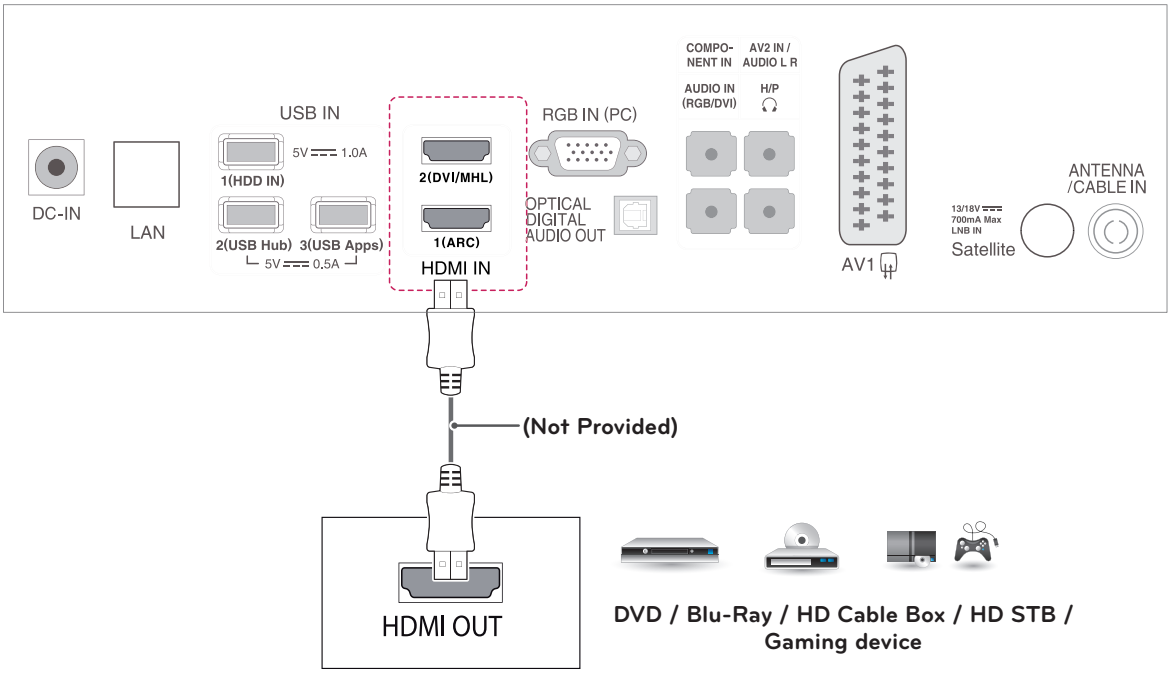
HDMI connection

HDMI is the best way to connect a device.
Transmits the digital video and audio signals from an external device to the TV. Connect the external device and the TV with the HDMI cable as shown on the following illustration.

NOTE

- Use a High Speed HDMI™ Cable.
- High Speed HDMI™ Cables are tested to carry an HD signal up to 1080p and higher.
- Supported DTV Audio: MPEG, Dolby Digital.
- Supported HDMI Audio format: Dolby Digital, DTS, PCM (Up to 192 KHz, 32k/44.1k/48k/88k/96k/176k/ 192k)

- **Choose any HDMI input port to connect.**
- **It does not matter which port you use.**

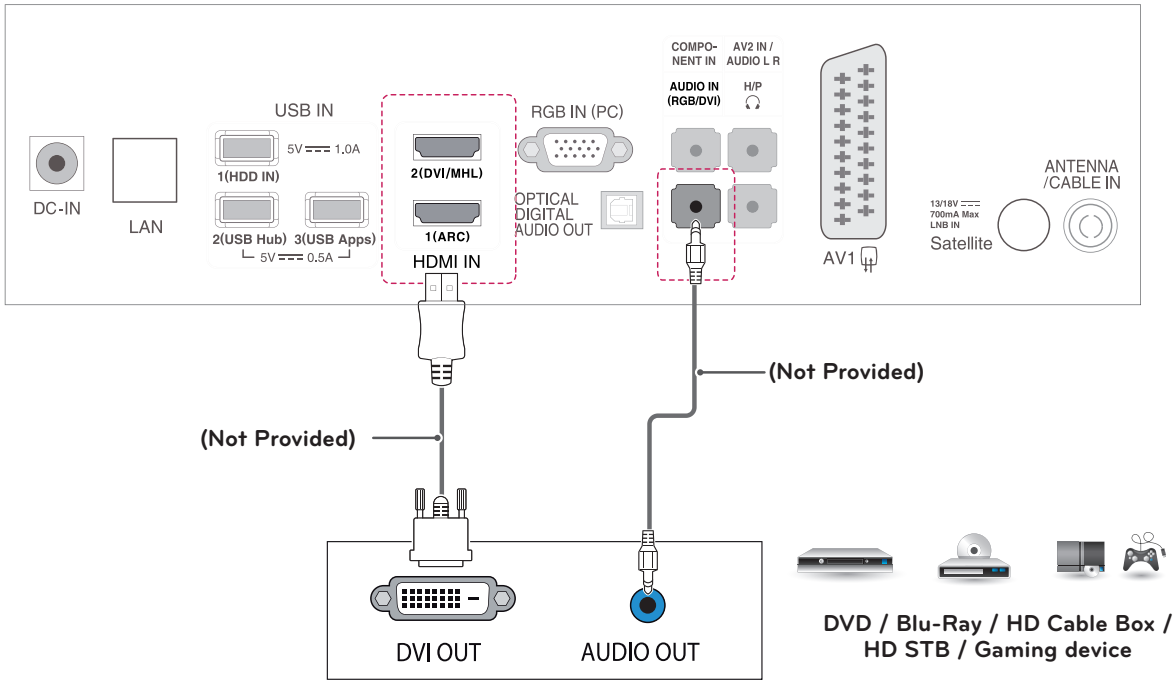


HDMI to DVI connection

Transmits the digital video signal from an external device to the TV. Connect the external device and the TV with the HDMI to DVI cable as shown in the following illustration. To transmit an audio signal, connect an optional audio cable.

NOTE

If you do not use an optional external speaker, connect the external device to the TV with the optional audio cable.

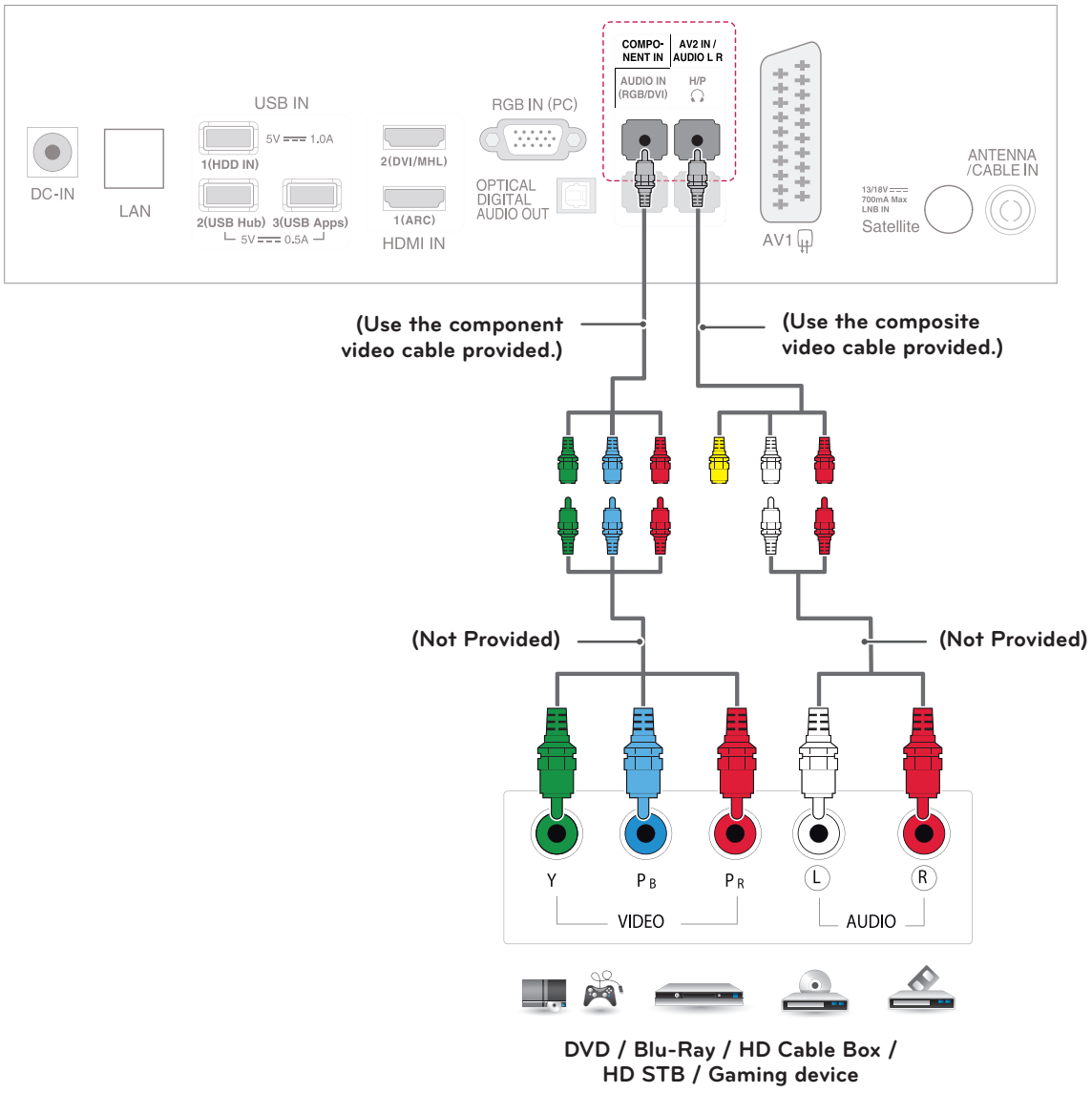


Component connection

Transmits the analog video and audio signals from an external device to the TV. Connect the external device and the TV with the component cable as shown on the following illustration. To display images by using progressive scan, make sure to use the component cable.

NOTE

- If cables are installed incorrectly, it could case the image to display in black and white or with distorted color.
- **Check to ensure the cable are matched with the corresponding color connection.**

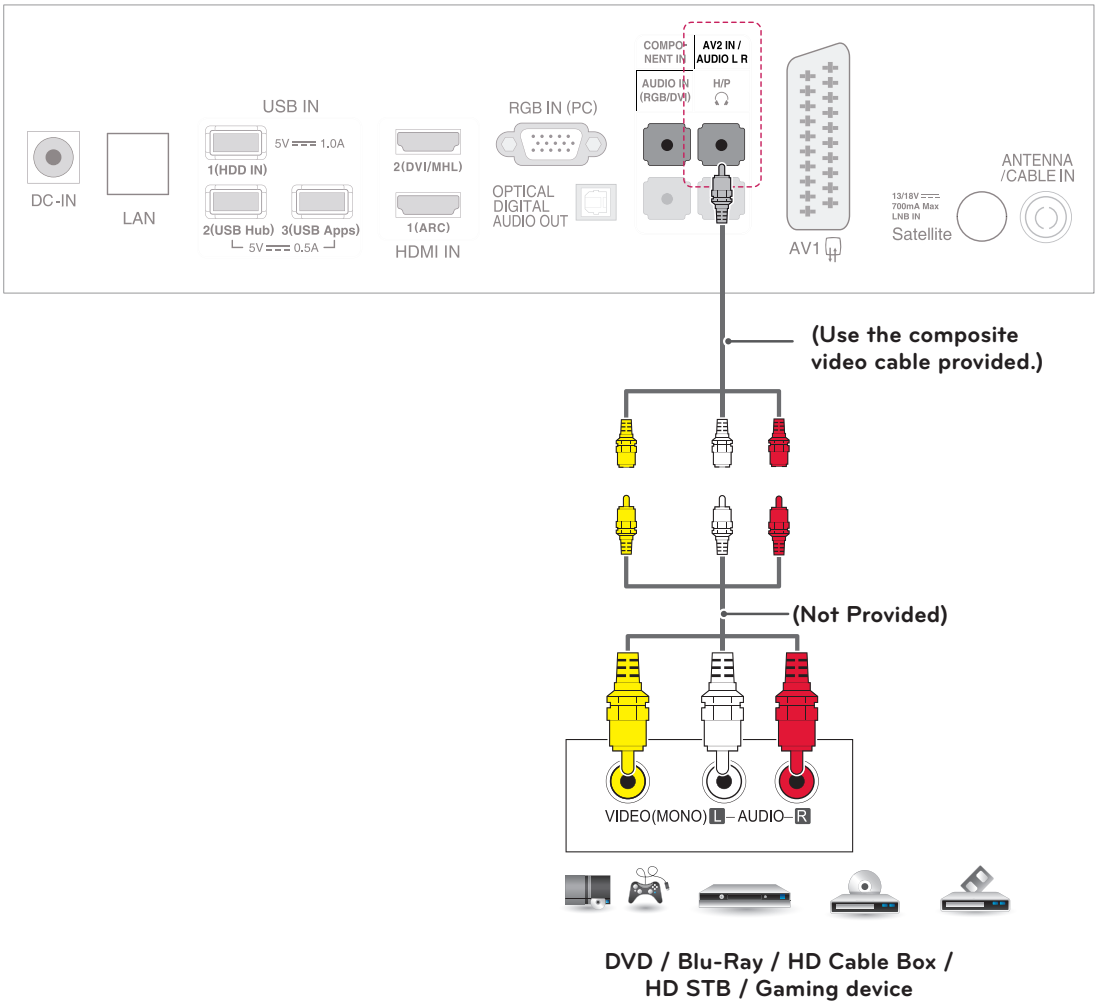


Composite connection

Transmits the analog video and audio signals from an external device to the TV. Connect the external device and the TV with the composite cable as shown on the following illustration.

NOTE

Check to ensure the cable are matched with the corresponding color connection.



Euro Scart connection

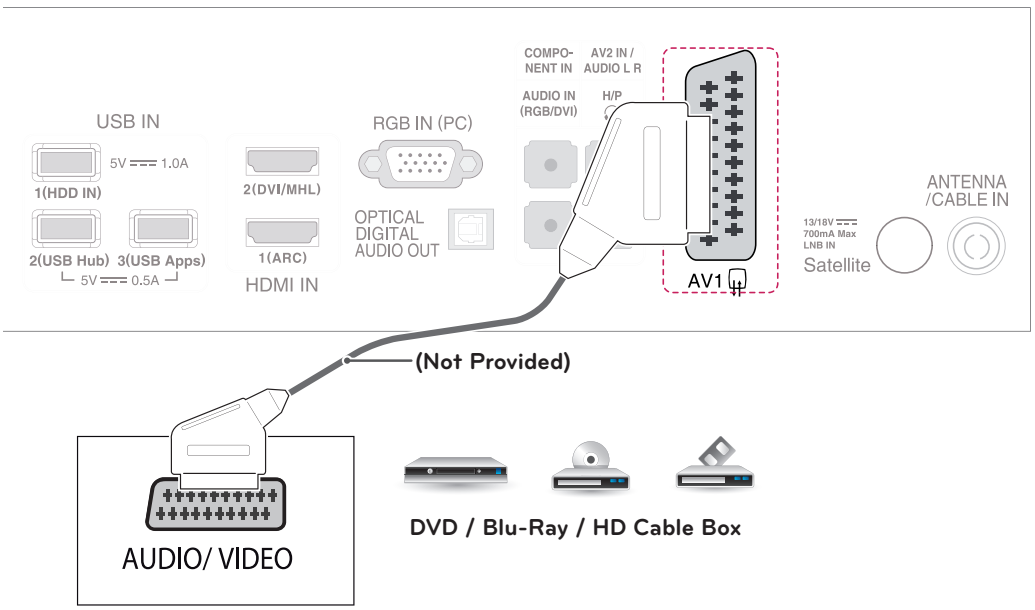
Transmits the video and audio signals from an external device to the TV. Connect the external device and the TV with the Euro Scart cable as shown on the following illustration. To display images by using progressive scan, make sure to use the Euro Scart cable.

Output Type / Current input mode	AV1 (TV Out[1])	AV1 (When DTV scheduled recording is in progress using recording equipment.)
Digital TV	Digital TV	O
Analogue TV, AV	Analogue TV	O (The input mode is converted to DTV.)
Component/ RGB		
HDMI		

1 TV Out : Outputs Analogue TV or Digital TV signals.

NOTE

- Any Euro scart cable used must be signal shielded.
- When watching digital TV in 3D imaging mode, TV out signals cannot be output through the SCART cable.
- If you set the 3D mode to On while a scheduled recording is performed on digital TV, monitor out signals cannot be output through the SCART cable, and the recording cannot be performed.



Connecting to an audio system

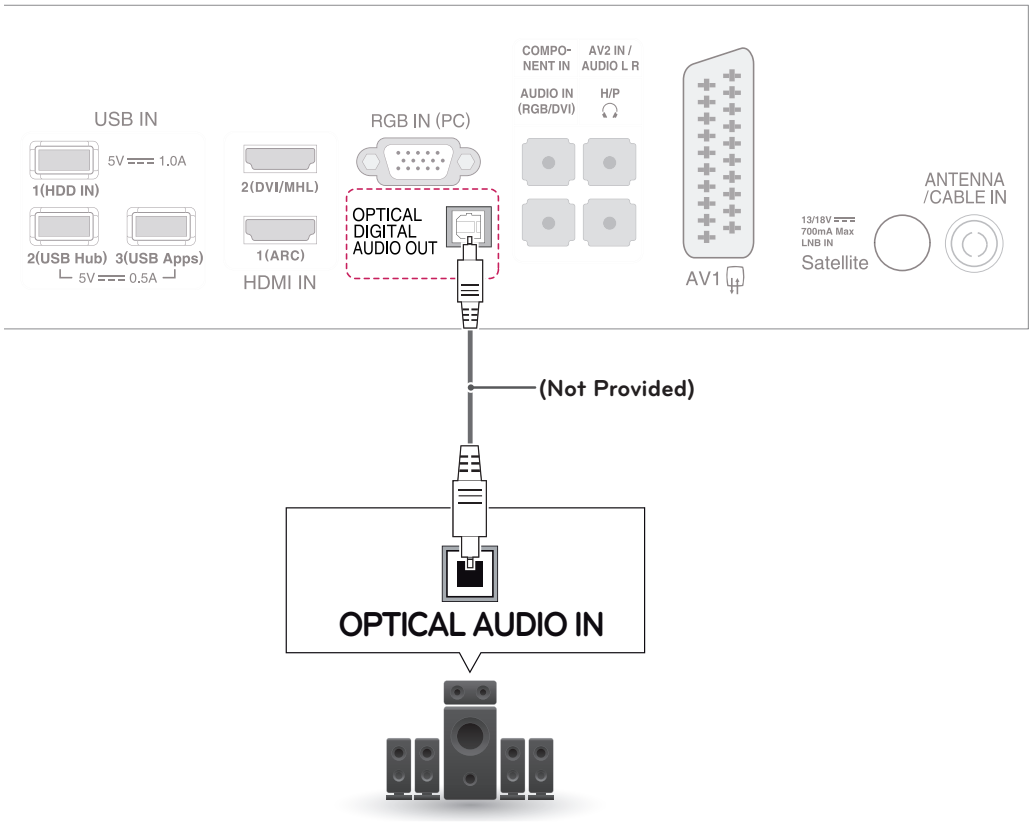
Use an optional external audio system instead of the built-in speaker.

Digital optical audio connection

Transmits the digital audio signal from the TV to an external device. Connect the external device and the TV with the optical audio cable as shown on the following illustration.

CAUTION

- Do not look into the optical output port. Looking at the laser beam may damage your vision.
- Audio with ACP (Audio Copy Protection) function may block digital audio output.



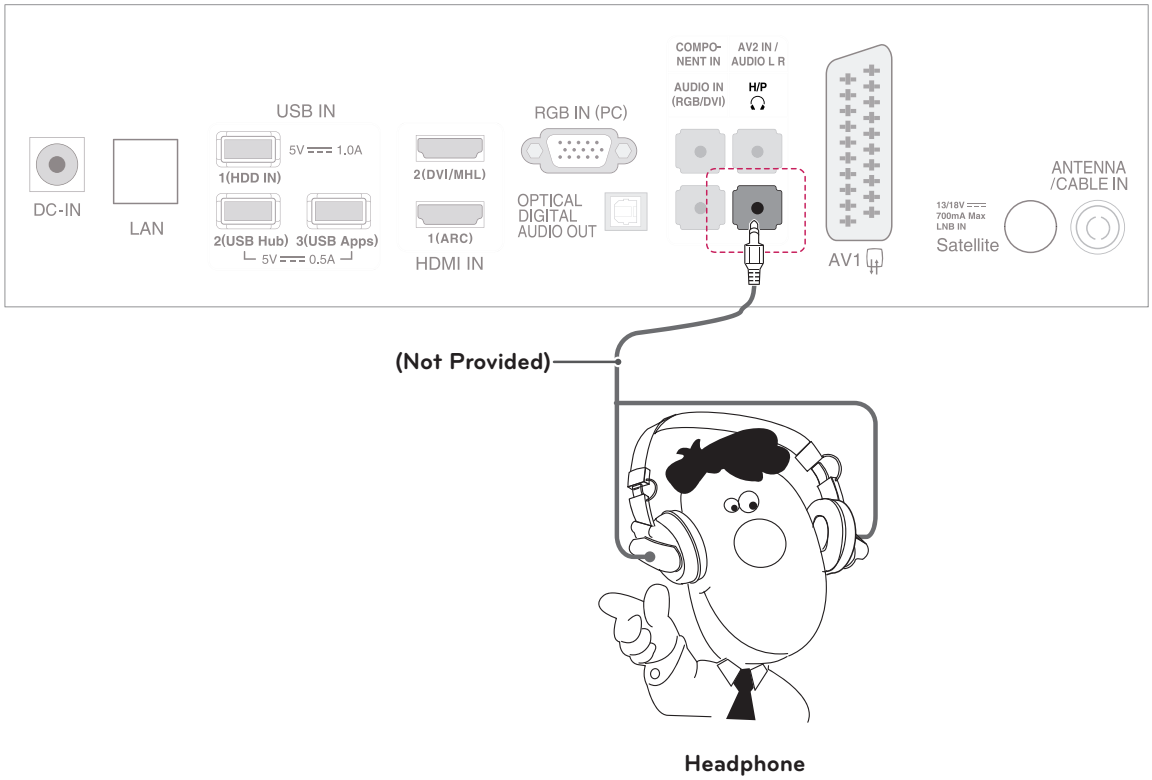
Digital Audio System

Headphone connection

Transmits the headphone signal from the TV to an external device. Connect the TV with the headphone as shown on the following illustration.

NOTE

- AUDIO menu items are disabled when connecting a headphone.
- When changing AV MODE with a headphone connected, the change is applied to video but not to audio.
- Optical digital audio out is not available when connecting a headphone.
- Headphone impedance: 16 Ω
- Max audio output of headphone: 10 mW to 15 mW
- Headphone jack size: 0.35 cm

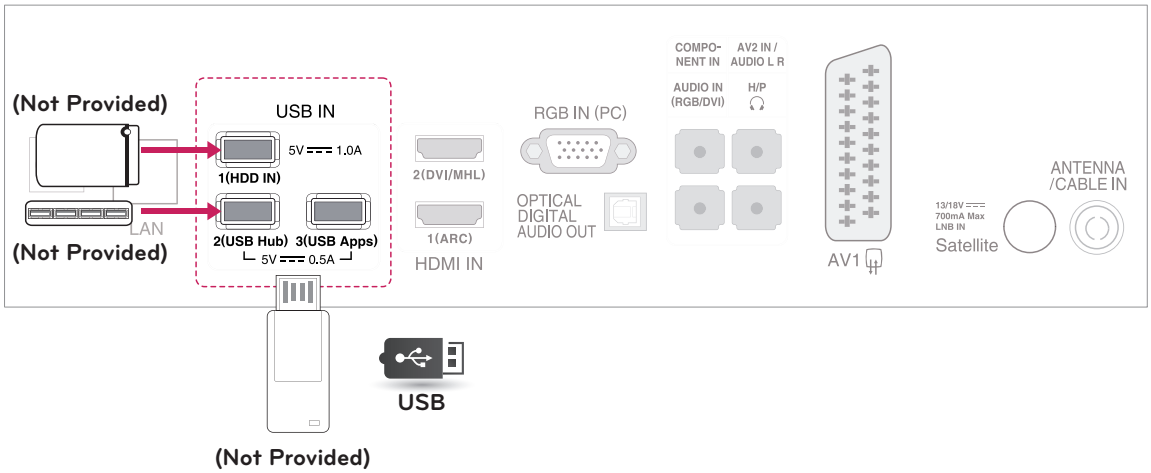


Connecting to a USB

Connect a USB storage device such as s USB flash memory, external hard drive, MP3 player or a USB memory card reader to the TV and access the USB menu to use various multimedia files.

NOTE

- To use a USB Hub device, make sure that it is connected to the USB IN 2 USB Hub port.
- Some USB Hubs may not work. If a USB device connected using a USB Hub is not detected, connect it to the USB port on the TV directly.

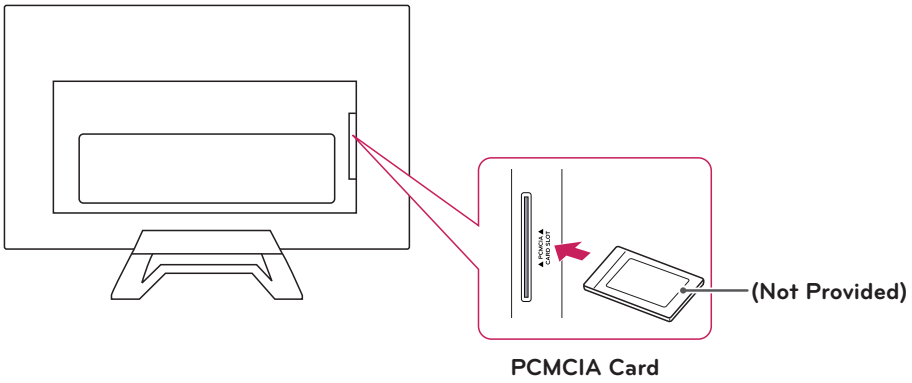


Connecting to a CI Module

View the encrypted (pay) services in digital TV mode. This feature is not available in all countries.

NOTE

Check if the CI module is inserted into the PCMCIA card slot in the right direction. If the module is not inserted properly, this can cause damage to the TV and the PCMCIA card slot.

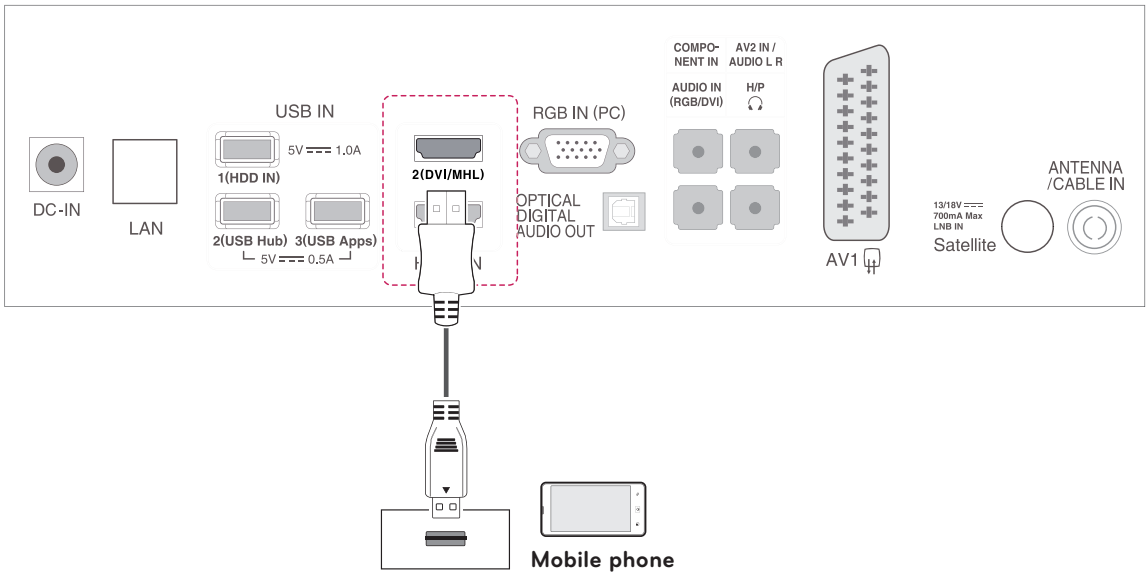


MHL connection

Mobile High-definition Link (MHL) is an interface for transmitting digital audiovisual signals from mobile phones to television sets.

NOTE

- Connect the mobile phone to the HDMI IN 2(DVI/MHL) port to view the phone screen on the TV.
- The MHL passive cable is needed to connect the TV and a mobile phone.
- This only works for the MHL-enabled phone.
- Some applications can be operated by the remote control.



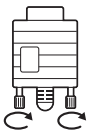
Connecting to a PC

Your TV supports the Plug & Play* feature and has the built-in speakers.

* Plug & Play: The function when a PC recognizes a connected device that users connect to a PC and turn on, without device configuration or user intervention.

NOTE

- It is recommended to use the TV with the HDMI connection for the best image quality.
- If you do not use an optional external speaker, connect the PC to the TV with the optional audio cable.
- If you turn the TV on when the set becomes cold, the screen may flicker. This is normal.
- Some red, green, or blue spots may appear on the screen. This is normal.
- Connect the signal input cable and tighten it by turning the screws clockwise.
- Do not press the screen with your finger for a long time as this may result in temporary distortion on the screen.
- Avoid displaying a fixed image on the screen for a long period of time to prevent image burn. Use a screensaver if possible.



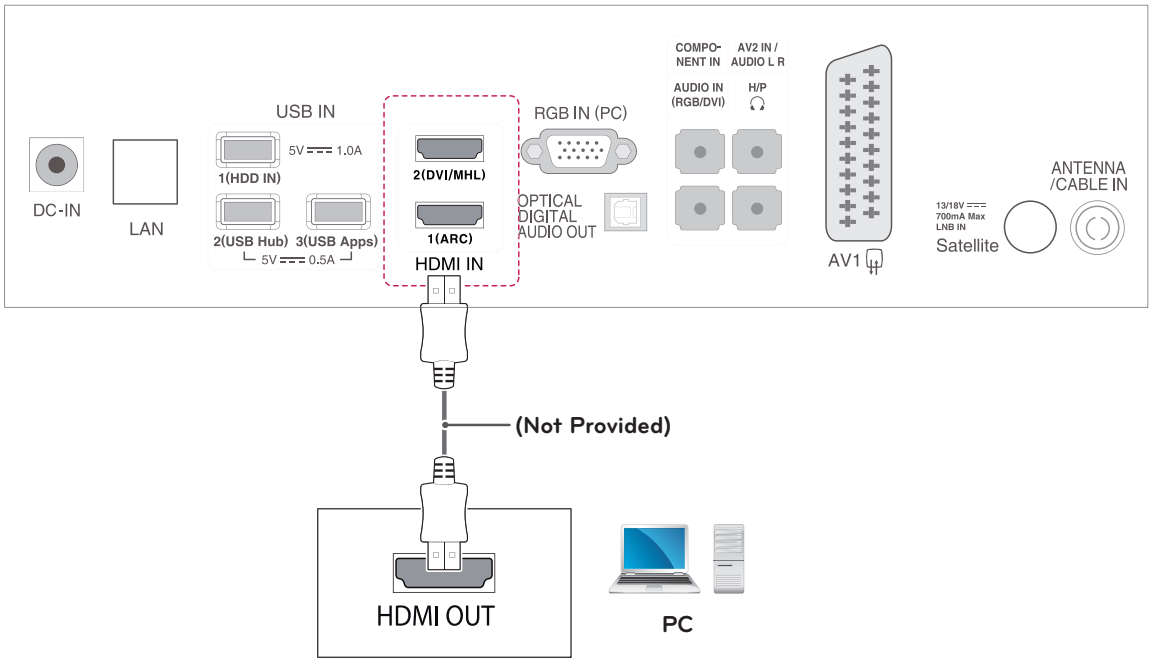
HDMI connection

Transmits the digital video and audio signals from your PC to the TV. Connect the PC and the TV with the HDMI cable as shown in the following illustrations. You should set PC as an input label to connect the PC to the TV with an HDMI connection.

NOTE

- Use a High Speed HDMI™ Cable.
- High Speed HDMI™ Cables are tested to carry an HD signal up to 1080p and higher.
- If you want to use HDMI-PC mode, you must set the input label to PC mode.
- Supported DTV Audio: MPEG, Dolby Digital.
- Supported HDMI Audio format: Dolby Digital, DTS, PCM (Up to 192 KHz, 32k/44.1k/48k/88k/96k/176k/ 192k)

- **Choose any HDMI input port to connect.**
- **It does not matter which port you use.**

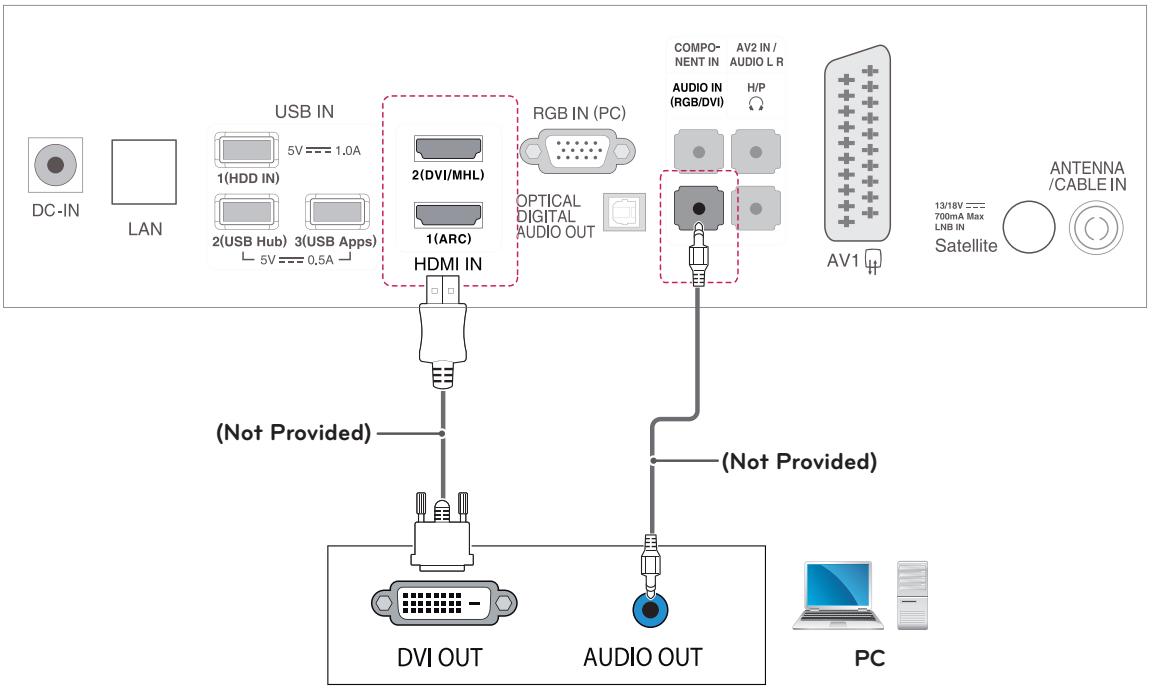


HDMI to DVI connection

Transmits the digital video signal from your PC to the TV. Connect the PC and the TV with the HDMI to DVI cable as shown the following illustrations. To transmit an audio signal, connect an optional audio cable.

NOTE

- If you want to use HDMI-PC mode, you must set the input label to PC mode.
- If you do not use an optional external speaker, connect the PC to the TV with the optional audio cable.

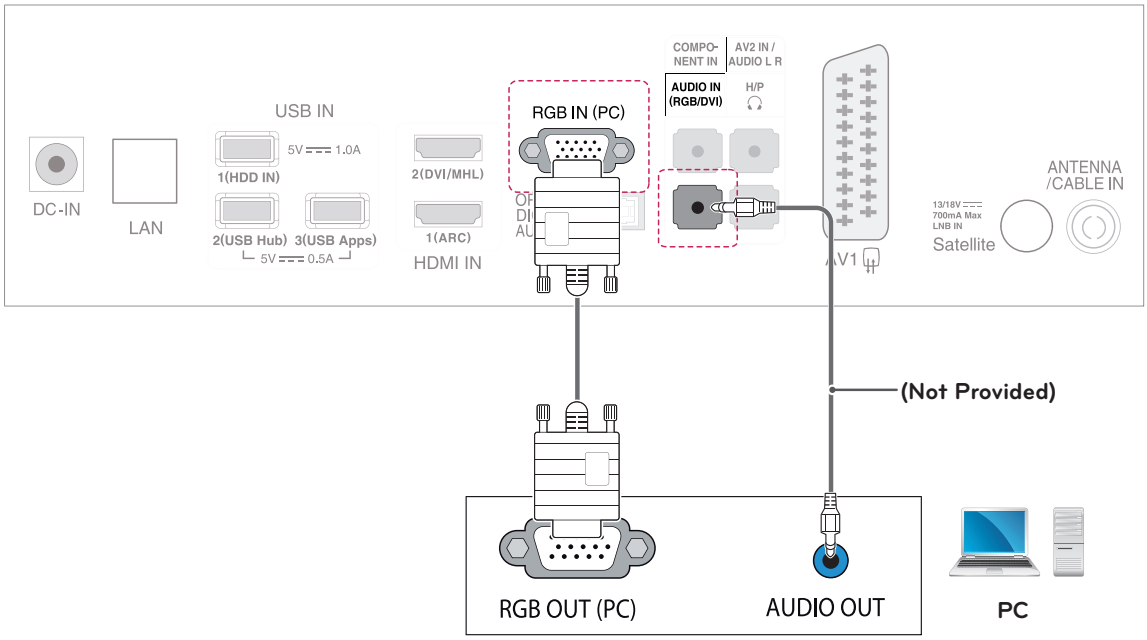


RGB connection

Transmits the analog video signal from your PC to the TV. Connect the PC and the TV with the D-sub 15 pin cable as shown the following illustrations. To transmit an audio signal, connect an optional audio cable.

NOTE

If you do not use an optional external speaker, connect the PC to the TV with the optional audio cable.

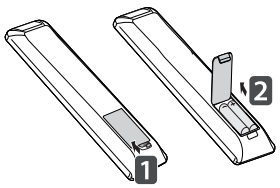


REMOTE CONTROL

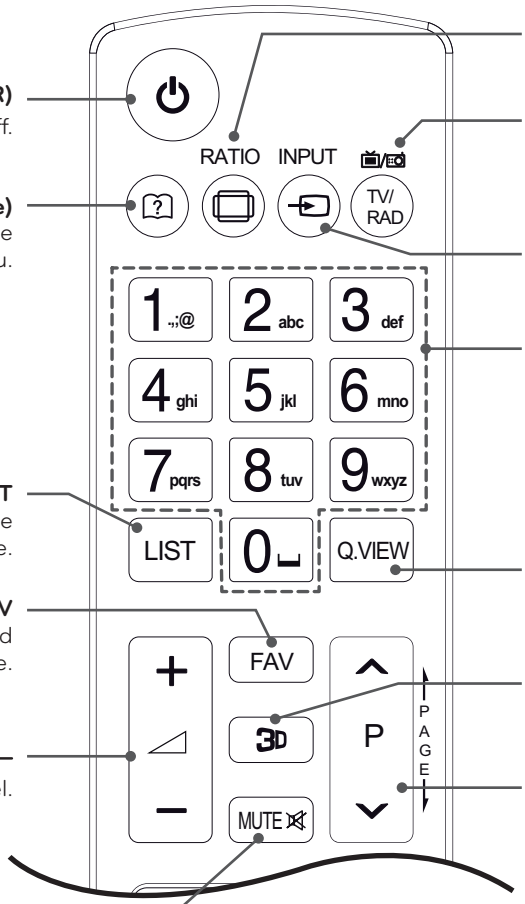
The descriptions in this manual are based on the buttons of the remote control. Please read this manual carefully and use the TV correctly.
To replace batteries, open the battery cover, replace batteries (1.5 V AAA) matching ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover.
To remove the batteries, perform the installation actions in reverse.

CAUTION

Do not mix old and new batteries, as this may damage the remote control.



Make sure to point the remote control to the remote control sensor on the TV.



⏻ (POWER)
Turns the TV on or off.

(User Guide)
Accesses the User Guide menu.

LIST
Displays the programme table.

FAV
Displays the selected favourite programme.

⊿+−
Adjusts the volume level.

MUTE
Mutes all sounds.

RATIO
Resizes an image.

TV/RAD
Selects Radio, TV and DTV programme.

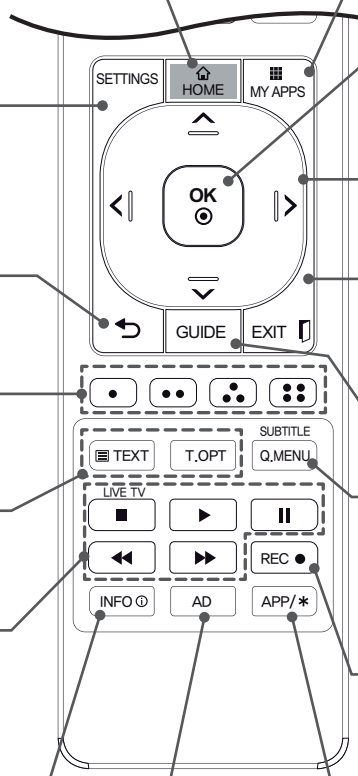
INPUT
Selects the input mode.

Alphanumeric Buttons
Enters letters and numbers.
␣(Space)
Opens an empty space on the screen keyboard.

Q.VIEW
Returns to the previously viewed programme.

3D
Uses for viewing 3D video.

P ∧ ∨
Scrolls through the saved programmes.
PAGE
Moves to the previous or next screen.



HOME
Accesses the HOME menu.

SETTINGS
Accesses the main menu.

(BACK)
Returns to the previous level.

Coloured buttons
These access special functions in some menus.

Teletext buttons
These buttons are used for teletext.

LIVE TV
Return to LIVE TV.

control buttons
Controls the Premium contents, DVR or Smart Share menus or the SIMPLINK compatible devices (USB or SIMPLINK or DVR).

INFO
Views the information of the currently program and the screen.

AD
Switches the Audio Description On or Off.

MY APPS
Shows the list of Apps.

OK
Selects menus or options and confirms your input.

Navigation buttons
Scrolls through menus or options.

EXIT
Clears all on-screen displays and returns to TV viewing from any menu.

GUIDE
Shows programme guide.

Q.MENU
Accesses the quick menus.

SUBTITLE
Recalls your preferred subtitle in digital mode.

REC
Uses to adjust DVR menu.

APP/*
Select the MHP TV menu source. (Only Italy) (Depending on model)

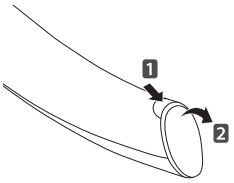
NOTE

On MHEG channel, you cannot adjust the backlight with the yellow or blue key.

ENGLISH

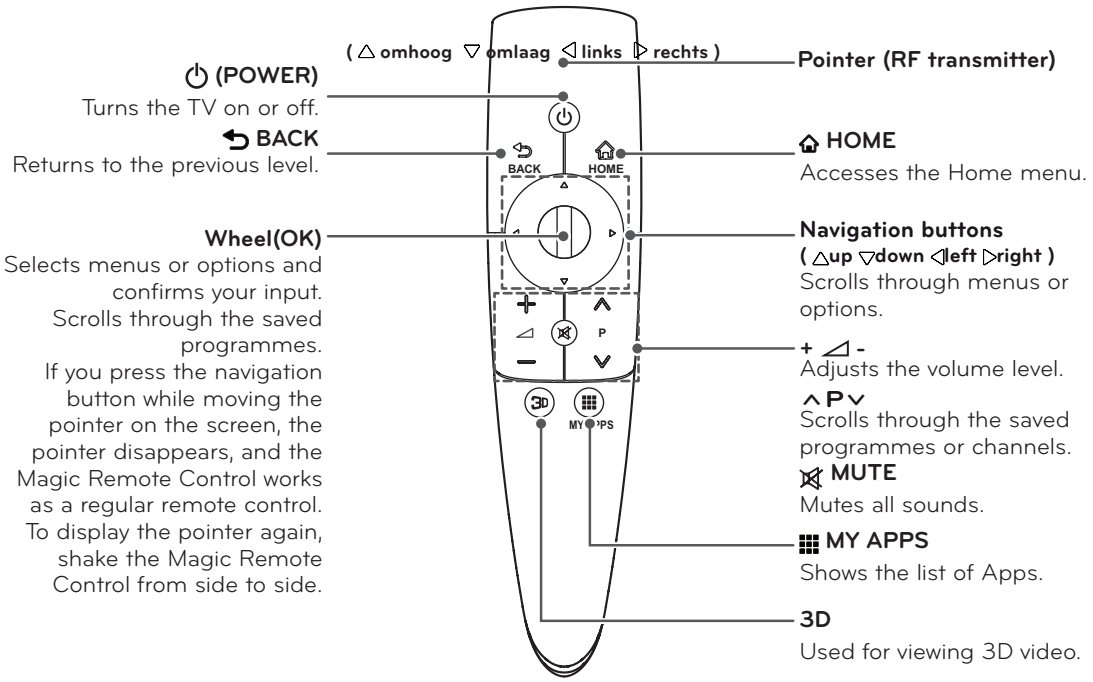
MAGIC REMOTE CONTROL FUNCTIONS

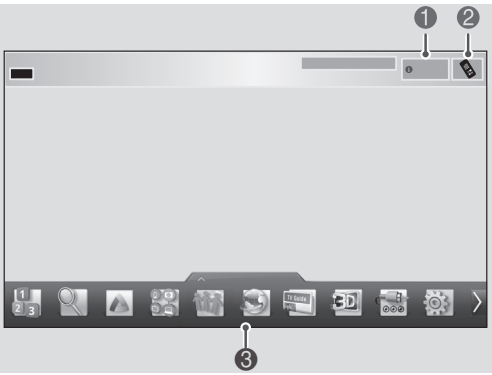
When the message "Magic Remote Control battery is low. Change the battery." is displayed, replace the battery.
To replace batteries, open the battery cover, replace batteries (1.5 V AA) matching
and ends to the label inside the compartment, and close the battery cover. Be sure to point the remote control toward the remote control sensor on the TV.
To remove the batteries, perform the installation actions in reverse.



CAUTION

Do not mix old and new batteries, as this may damage the remote control.


(△ omhoog ▽ omlaag ◁ links ▷ rechts)
Pointer (RF transmitter)
(POWER)
Turns the TV on or off.
BACK
Returns to the previous level.
HOME
Accesses the Home menu.
Wheel(OK)
Selects menus or options and confirms your input.
Scrolls through the saved programmes.
If you press the navigation button while moving the pointer on the screen, the pointer disappears, and the Magic Remote Control works as a regular remote control.
To display the pointer again, shake the Magic Remote Control from side to side.
Navigation buttons
(△up ▽down ◁left ▷right)
Scrolls through menus or options.
+ -
Adjusts the volume level.
∧ P ∨
Scrolls through the saved programmes or channels.
MUTE
Mutes all sounds.
MY APPS
Shows the list of Apps.
3D
Used for viewing 3D video.
BACK
HOME
P
3D
MY APPS



1	If you press **Wheel(OK)** on the Magic Remote Control, the following screen appears. Shows information about the current programmes and screen.
2	Pressing this button will display number keypad which you can select programme number.
3	You can select My Apps Menu.

Registering Magic Remote Control

It is necessary to 'pair' (register) the magic remote control to your TV before it will work.

How to register the Magic Remote Control

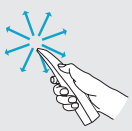
1 To register automatically, turn the TV on and press the **Wheel(OK)** button. When registration is completed, the completion message appears on the screen.
2 If registration fails, turn the TV off and back on, then press the **Wheel(OK)** button to complete registration.

How to re-register the Magic Remote Control

BACK
HOME

1 Press and hold the **BACK** and **HOME** buttons together for 5 seconds to reset, then register it by following "How to register the Magic Remote Control" above.
2 To re-register the Magic Remote Control, press and hold the **BACK** button for 5 seconds toward the TV. When registration is completed, the completion message appears on the screen.

How to use Magic Remote Control



1 If the pointer disappears, move the Magic Remote Control slightly to left or right. Then, it will automatically appear on the screen.
» If the pointer has not been used for a certain period of time, it will disappear.
2 You can move the pointer by aiming the Pointer Receiver of the Magic Remote Control at your TV then move it left, right, up or down.
» If the pointer does not work properly, leave the Magic Remote Control for 10 seconds then use it again.

Precautions to Take when Using the Magic Remote Control

- Use the Magic Remote Control within the maximum communication distance (10 m). Using the Magic Remote Control beyond this distance, or with an object obstructing it, may cause a communication failure.
- A communication failure may occur due to nearby devices. Electrical devices such as a microwave oven or wireless LAN product may cause interference, as these use the same bandwidth (2.4 GHz) as the Magic Remote Control.
- The Magic Remote Control may be damaged or may malfunction if it is dropped or receives a heavy impact.
- Take care not to bump into nearby furniture or other people when using the Magic Remote Control.
- Manufacturer and installer cannot provide service related to human safety as the applicable wireless device has possibility of electric wave interference.
- It is recommended that an Access Point (AP) be located more than 1 m away from the TV. If the AP is installed closer than 1 m, the Magic Remote Control may not perform as expected due to frequency interference.

ENGLISH

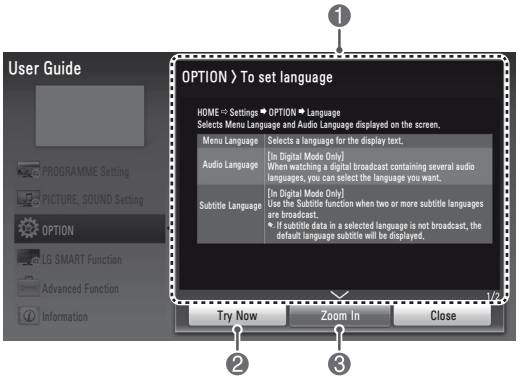
USING THE USER GUIDE

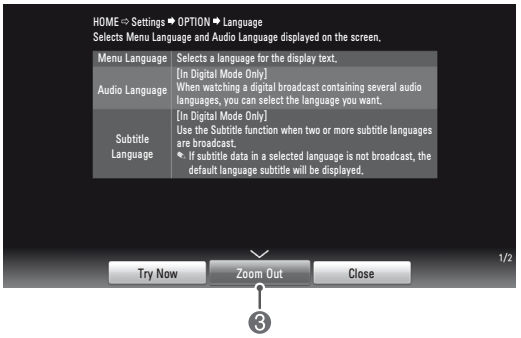
User Guide allows you to more easily access the detailed TV information.

1 Press **HOME** button to access the Home menu.

2 Select **User Guide** and press **Wheel(OK)**.

User Guide

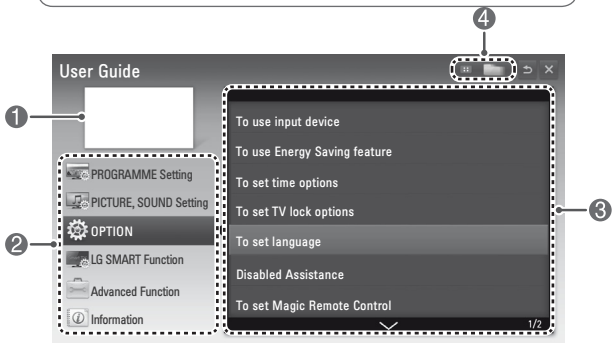

User Guide
OPTION 〉To set language
HOME ⇨ Settings ➡ OPTION ➡ Language
Selects Menu Language and Audio Language displayed on the screen.
Menu Language
Selects a language for the display text.
Audio Language
[In Digital Mode Only]
When watching a digital broadcast containing several audio languages, you can select the language you want.
Subtitle Language
[In Digital Mode Only]
Use the Subtitle function when two or more subtitle languages are broadcast.
If subtitle data in a selected language is not broadcast, the default language subtitle will be displayed.
PROGRAMME Setting
PICTURE, SOUND Setting
OPTION
LG SMART Function
Advanced Function
Information
1/2
Try Now
Zoom In
Close
1
2
3


HOME ⇨ Settings ➡ OPTION ➡ Language
Selects Menu Language and Audio Language displayed on the screen.
Menu Language
Selects a language for the display text.
Audio Language
[In Digital Mode Only]
When watching a digital broadcast containing several audio languages, you can select the language you want.
Subtitle Language
[In Digital Mode Only]
Use the Subtitle function when two or more subtitle languages are broadcast.
If subtitle data in a selected language is not broadcast, the default language subtitle will be displayed.
1/2
Try Now
Zoom Out
Close
3

❶	Shows the description of the selected menu. You can use ∧ ∨ to move between pages.
❷	Moves to the selected menu directly from the User Guide.
❸	Zooms in or out the screen.

NOTE

- You can also access the User Guide by pressing **(User Guide)** button in the remote control.



❶	Shows the current watching programme or input source screen.
❷	Allows to select the category you want.
❸	Allows to select the item you want. You can use ∧ ∨ to move between pages.
❹	Allows to browse the description of the function you want from the index.

MAINTENANCE

Cleaning Your TV

Clean your TV regularly to keep the best performance and to extend the product lifespan.

CAUTION

- Make sure to turn the power off and disconnect the power cord and all other cables first.
- When the TV is left unattended and unused for a long time, disconnect the power cord from the wall outlet to prevent possible damage from lightning or power surges.

Screen and frame

To remove dust, wipe the surface with a dry and soft cloth.
To remove major dirt, wipe the surface with a soft cloth dampened in clean water or a diluted mild detergent. Then wipe immediately with a clean and dry cloth.

CAUTION

- Do not push, rub, or hit the surface with your fingernail or a sharp object, as this may result in scratches on the screen and image distortions.
- Do not use any chemicals, such as waxes, benzene, alcohol, thinners, insecticides, air fresheners, lubricants, as these may damage the screen's finish and cause discolorations.

Cabinet and stand

To remove dust, wipe the cabinet with a dry and soft cloth.
To remove major dirt, wipe the cabinet with a soft cloth dampened in a clean water or water containing a small amount of mild detergent.

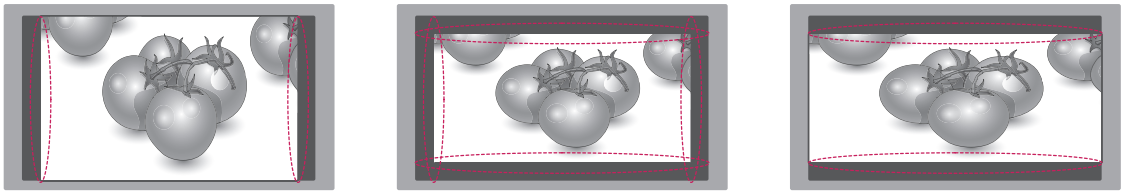
CAUTION

- Do not spray liquid onto the surface. If water enters the TV, it may result in fire, electric shock, or malfunction.
- Do not use any chemicals as this may deteriorate the surface.

Power cord

Remove the accumulated dust or dirt on the power cord regularly.

Preventing "Image burn" or "Burn-in" on your TV screen



- If a fixed image displays on the TV screen for a long period of time, it will be imprinted and become a permanent disfigurement on the screen. This is "image burn" or "burn-in" and not covered by the warranty.
- If the aspect ratio of the TV is set to 4:3 for a long period of time, image burn may occur on the letterboxed area of the screen.
- Avoid displaying a fixed image on the TV screen for a long period of time (2 or more hours for LCD) to prevent image burn.

TROUBLESHOOTING

General

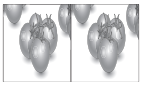
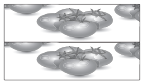
Problem	Resolution
Cannot control the TV with the remote control.	• Check the remote control sensor on the product and try again. • Check if there is any obstacle between the product and the remote control. • Check if the batteries are still working and properly installed (⊕ to ⊕, ⊖ to ⊖).
No image display and no sound is produced.	• Check if the product is turned on. • Check if the power cord is connected to a wall outlet. • Check if there is a problem in the wall outlet by connecting other products.
The TV turns off suddenly.	• Check the power control settings. The power supply may be interrupted. • Check if the Auto sleep feature is activated in the Time settings. • If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.

Using 3D mode

Problem	Resolution
If you can see a swirling oil-like pattern on the TV when the TV is turned off.	This is caused by the interference of external light in the air layer between the LCD surface and 3D filter. The pattern becomes almost invisible when you turn on the power again.
If you are not using the glasses provided with the TV.	When you view 3D images with this TV, it is very important that you use the glasses provided with the TV. The glasses are designed to compensate optically for the 3D filter attached to the surface of the TV. If you wear third-party glasses, you may not see 3D images properly on the TV.
If you view 3D images outside the optimal viewing angle or distance.	When you view 3D images outside the optimal viewing angle or viewing distance, the images may look overlapped or not be displayed properly in 3D.

Notes for Viewing 3D Image with 3D Digital Brodcating

***In Analogue Brodcating, 3D Imaging does not work.**

Problem	Resolution
When switching the 2D image display to the 3D image display with the 3D button on the remote control, the overlapped image may be displayed.	• Disable the 3D imaging mode with the 3D button. • The 3D imaging mode is disabled automatically if you change the channel.
If the screen is divided into left/right or top/bottom when you change the channel  	This channel supports the 3D imaging mode. Select the 3D imaging type displayed on the screen by pressing the 3D button on the remote control.
If your eyes are sore or the screen looks blurry while viewing 3D images.	Select Left/Right or Right/Left option, which you find better for viewing 3D images.

SPECIFICATIONS

Product specifications may be changed without prior notice due to upgrade of product functions.

Wireless LAN module(TWFM-B003D) specification	
Standard	IEEE802.11a/b/g/n
Frequency Range	2400 to 2483.5 MHz 5150 to 5250 MHz 5725 to 5850 MHz
Modulation	CCK / OFDM / MIMO
Output Power (Typical)	802.11a: 11 dBm 802.11b: 15 dBm 802.11g: 13 dBm 802.11n - 2.4GHz: 13 dBm 802.11n - 5GHz: 13 dBm
Data rate	802.11a/g: 54 Mbps 802.11b: 11 Mbps 802.11n: 300 Mbps
Antenna Gain (Typical)	2400 to 2483.5 MHz: -2.5dBi 5150 to 5250 MHz: -2.2dBi 5725 to 5850 MHz: -2.9dBi
Occupied bandwidth	802.11a/b/g: HT20 802.11n: HT20/40

- Because band channel used by the country could be different, the user can not change or adjust the operating frequency and this product is set for the regional frequency table.

Bluetooth module (BM-LDS302) specification	
Standard	Bluetooth Version 3.0
Frequency Range	2400 ~ 2483.5 MHz
Output Power (Max.)	10 dBm or lower
Data rate (Max.)	3 Mbps
Communication Distance	Line of Open Sight approx. 10 m

Panel	Screen Type	686 mm Wide (27 inch) Visible diagonal size : 686 mm
	Pixel Pitch	0.3114 mm (H) x 0.3114 mm (V)
Video Signal	Max. Resolution	1920 × 1080 @ 60 Hz
	Recommended Resolution	1920 × 1080 @ 60 Hz
	Horizontal Frequency	30 kHz to 83 kHz
	Vertical Frequency	58 Hz to 62 Hz
	Synchronization Type	Separate Sync, Digital
Input Connector		TV, D-Sub Analog, SCART, PC Audio In, Component, CVBS, HDMI*2, USB*3, PCMCIA, LAN JACK
Power	Rated Voltage	19 V ⎓ 3.0 A
	Power Consumption	On Mode : 38 W (typ.) Off Mode ≤ 0.5 W
AC/DC Adapter		Manufacturer: LG Innotek, Model PSAB-L206A
Tilt	Tilt Range	-5 to 20°
Dimensions (Width x Depth x Height) Weight		With Stand
		622.3 mm x 196.0 mm x 449.0 mm 5.9 kg
		Without Stand
		622.3 mm x 83.9 mm x 379.9 mm 5.2 kg
Environmental conditions	Operating Temperature Operating Humidity	10 °C to 35 °C 20 % to 80 %
	Storage Temperature Storage Humidity	-10 °C to 60 °C 5 % to 90 %

Product specifications shown above may be changed without prior notice due to upgrade of product functions.

RGB (PC) / HDMI (PC) supported mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
640 x 350	31.468	70.090
720 x 400	31.469	70.080
640 x 480	31.469	59.940
800 x 600	37.879	60.317
1024 x 768	48.363	60.004
1152 x 864	54.348	60.053
1360 x 768	47.712	60.015
1280 x 1024 (HDMI)	63.981	60.020
1920 x 1080	67.500	60.000

Component supported mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720 x 480	15.730	59.940
720 x 480	15.750	60.000
720 x 576	15.625	50.000
720 x 480	31.470	59.940
720 x 480	31.500	60.000
720 x 576	31.250	50.000
1280 x 720	44.960	59.940
1280 x 720	45.000	60.000
1280 x 720	37.500	50.000
1920 x 1080	33.720	59.940
1920 x 1080	33.750	60.000
1920 x 1080	28.125	50.000
1920 x 1080	56.250	50.000
1920 x 1080	67.432	59.940
1920 x 1080	67.500	60.000

HDMI (DTV) supported mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720X480	31.469 31.500	59.940 60.000
720X576	31.250	50.000
1280X720	37.500 44.960 45.000	50.000 59.940 60.000
1920X1080	33.720 33.750 28.125 26.970 27.000 33.716 33.750 56.250 67.430 67.500	59.940 60.000 50.000 23.970 24.000 29.976 30.000 50.000 59.940 60.000

Component port connecting information

Component ports on the TV	Y	P_B	P_R

Video output ports on DVD player	Y	P_B	P_R
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr

Signal	Component
480i/576i	O
480p/576p	O
720p/1080i	O
1080p	O (50 Hz / 60 Hz only)

NOTE

- Avoid keeping a fixed image on the set's screen for prolonged periods of time. The fixed image may become permanently imprinted on the screen. Use a screen saver when possible.
- There may be interference relating to resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode to another resolution or change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.
- The synchronization input waveform for Horizontal and Vertical frequencies are separate.
- Connect the signal cable from the TV output port of the PC to the RGB (PC) port of the TV or the signal cable from the HDMI output port of the PC to the HDMI IN port on the TV.
- Connect the audio cable from the PC to the Audio input on the TV. (Audio cables are not included with the TV).
- If using a sound card, adjust PC sound as required.
- If the graphic card on the PC does not output analogue and digital RGB simultaneously, connect only one of either RGB or HDMI IN to display the PC output on the TV.
- If the graphic card on the PC does output analogue and digital RGB simultaneously, set the TV to either RGB or HDMI. (The other mode is set to Plug and Play automatically by the TV.)
- DOS mode may not work depending on the video card if you use an HDMI to DVI cable.
- If you use too long an RGB-PC cable that is too long, there may be interference on the screen. We recommend using under 5 m of cable. This provides the best picture quality.

3D supported mode

- Video, which is input as below media contents is switched into the 3D screen automatically.

<table>
<tr><th colspan="5">3D supported mode automatically</th></tr>
<tr><th>Input</th><th>Signal</th><th>Horizontal Frequency (kHz)</th><th>Vertical Frequency (Hz)</th><th>Playable 3D video format</th></tr>
<tr><td rowspan="24">HDMI</td><td rowspan="2">640 X 480</td><td>31.469 / 31.5</td><td rowspan="4">59.94 / 60</td><td>Top & Bottom,
Side by Side(Half), Side by Side(Full)</td></tr>
<tr><td>62.938 / 63</td><td>Frame Packing, Line Alternative</td></tr>
<tr><td rowspan="2">480p</td><td>31.469 / 31.5</td><td>Top & Bottom,
Side by Side(Half), Side by Side(Full)</td></tr>
<tr><td>62.938 / 63</td><td>Frame Packing, Line Alternative</td></tr>
<tr><td rowspan="2">576p</td><td>31.25</td><td rowspan="2">50</td><td>Top & Bottom,
Side by Side(Half), Side by Side(Full)</td></tr>
<tr><td>62.5</td><td>Frame Packing, Line Alternative</td></tr>
<tr><td rowspan="4">720p</td><td>37.50</td><td>50</td><td rowspan="2">Top & Bottom,
Side by Side(Half), Side by Side(Full)</td></tr>
<tr><td>44.96 / 45</td><td>59.94 / 60</td></tr>
<tr><td>75</td><td>50</td><td rowspan="2">Frame Packing, Line Alternative</td></tr>
<tr><td>89.91 / 90</td><td>59.94 / 60</td></tr>
<tr><td rowspan="4">1080i</td><td>28.125</td><td>50</td><td rowspan="2">Top & Bottom,
Side by Side(Half), Side by Side(Full)</td></tr>
<tr><td>33.72 / 33.75</td><td>59.94 / 60</td></tr>
<tr><td>56.25</td><td>50</td><td rowspan="2">Frame Packing, Field Alternative</td></tr>
<tr><td>67.5</td><td>59.94 / 60</td></tr>
<tr><td rowspan="8">1080p</td><td>26.97 / 27</td><td>23.97 / 24</td><td rowspan="3">Top & Bottom,
Side by Side(Half), Side by Side(Full)</td></tr>
<tr><td>28.125</td><td>25</td></tr>
<tr><td>33.72 / 33.75</td><td>29.976 / 30</td></tr>
<tr><td>43.94 / 54</td><td>23.97 / 24</td><td rowspan="3">Frame Packing, Line Alternative</td></tr>
<tr><td>56.25</td><td>25</td></tr>
<tr><td>67.432 / 67.5</td><td>29.976 / 30</td></tr>
<tr><td>56.25</td><td>50</td><td rowspan="2">Top & Bottom, Side by Side(Half)</td></tr>
<tr><td>67.432 / 67.5</td><td>59.94 / 60</td></tr>
<tr><td>USB</td><td>1080p</td><td>33.75</td><td>30</td><td rowspan="2">Side by Side(Half), Top & Bottom,
Checker Board, MPO(Photo), JPS(Photo)</td></tr>
<tr><td>DLNA</td><td>1080p</td><td>33.75</td><td>30</td></tr>
</table>

- For models supporting WiDi, you can set the 3D mode in the same way as in RGB (PC) mode.

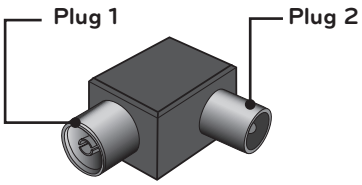
3D supported mode manually				
Input	Signal	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Playable 3D video format
HDMI-DTV	720p	37.50	50	2D to 3D, Side by Side(Half), Top & Bottom, Single Frame Sequential
		45.00	60	
	1080i	28.12	50	2D to 3D, Side by Side(Half), Top & Bottom
		33.75	60	
	1080p	27.00	24	2D to 3D, Side by Side(Half), Top & Bottom, Checker Board
		28.12	25	
		33.75	30	
		56.25	50	2D to 3D, Side by Side(Half), Top & Bottom, Checker Board, Single Frame Sequential, Row Interleaving, Column Interleaving
		67.50	60	
HDMI-PC	1024x768	48.36	60	2D to 3D, Side by Side(Half), Top & Bottom
	1360x768	47.71		
	1920x1080	67.50		2D to 3D, Side by Side(Half), Top & Bottom, Checker Board, Single Frame Sequential, Row Interleaving, Column Interleaving
	Others	-	-	2D to 3D
RGB-PC	1024x768	48.36	60	2D to 3D, Side by Side(Half), Top & Bottom
	1360x768	47.71		
	1920x1080	67.50		
	Others	-	-	2D to 3D
Component	720p	37.50	50	2D to 3D, Side by Side(Half), Top & Bottom
		45.00	60	
	1080i	28.12	50	
		33.75	60	
	1080p	27.00	24	
		28.12	25	
		33.75	30	
		56.25	50	
		67.50	60	
	Others	-	-	2D to 3D
USB	1080p	33.75	30	2D to 3D, Side by Side(Half),Top & Bottom, Checker Board, Row Interleaving, Column Interleaving(Photo : Side by Side(Half), Top & Bottom)
DLNA	1080p	33.75	30	
	Signal			Playable 3D video format
DTV	HD			2D to 3D, Side by Side(Half), Top & Bottom
	SD			2D to 3D

ANTENNA ISOLATOR INSTALLATION GUIDE

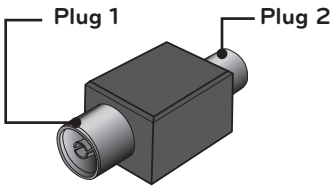
* Depending on the country

Use this to install TV in a place where there is a voltage difference between GND of power and GND of antenna signal. If there is a voltage difference between GND of power and GND of antenna signal, the antenna contact might be heated and excessive heat might cause an accident.
You can improve the safety when watching TV by efficiently removing power voltage from TV antenna. Avoid disconnecting the antenna Isolator after installation.

Unpacking and Exterior of antenna isolator



Isolator (Type A)



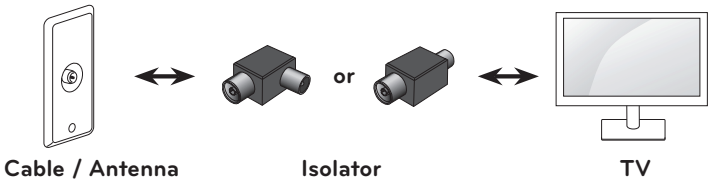
Isolator (Type B)

Connection method

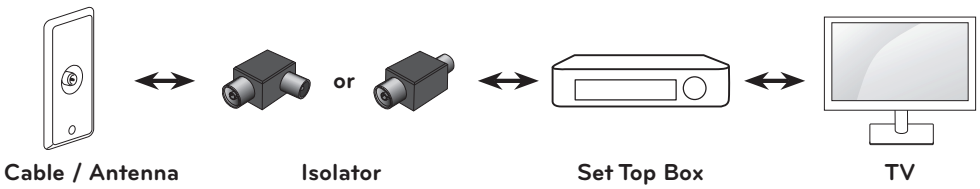
1 Connect **Plug 1** with a signal cable.

2 Connect **Plug 2** with ANT input end on the back of TV.

- Image shown may differ from your TV.



Cable / Antenna Isolator TV



Cable / Antenna Isolator Set Top Box TV

"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing - and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)"

When applying the RF Isolator, a slight loss of signal sensitivity can occur.

Make sure to read the Safety Precautions before using the product.
Keep the Owner's Manual (CD) in an accessible place for future reference.
The model and serial number of the TV is located on the back and one side of the TV. Record it below should you ever need service.

MODEL _____

SERIAL _____

To obtain the source code under GPL, LGPL, MPL and other open source licenses, that is contained in this product, please visit http://opensource.lge.com.
In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.
LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping and handling) upon email request to opensource@lge.com.
This offer is valid for three (3) years from the date on which you purchased the product.